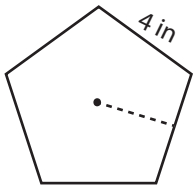
Name : _____ Score : _____

Polygon - Apothem

Example:



Perimeter = number of sides × side length

$= 5 \times 4 =$ **20 in**

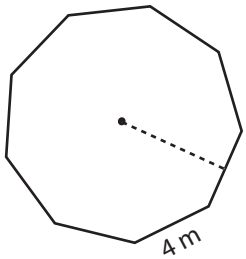
Area = 27.5 in^2

$$\text{Apothem} = \frac{2 \times \text{area}}{\text{perimeter}}$$

$$= \frac{2 \times 27.5}{20} = \textbf{2.75 in}$$

Find the perimeter and apothem of each polygon.

1)

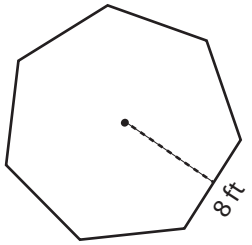


Area = 98.82 m^2

Perimeter = _____

Apothem = _____

2)

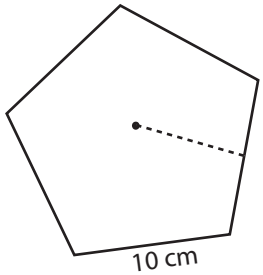


Area = 232.68 ft^2

Perimeter = _____

Apothem = _____

3)

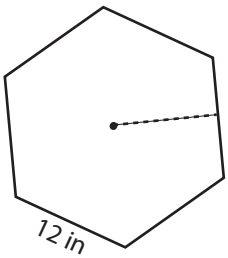


Area = 172 cm^2

Perimeter = _____

Apothem = _____

4)

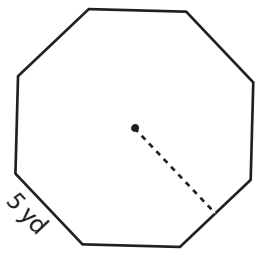


Area = 374.04 in^2

Perimeter = _____

Apothem = _____

5)

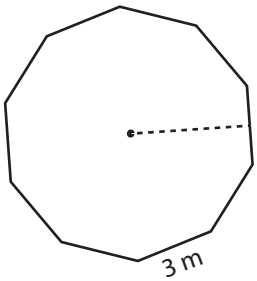


Area = 120.8 yd^2

Perimeter = _____

Apothem = _____

6)

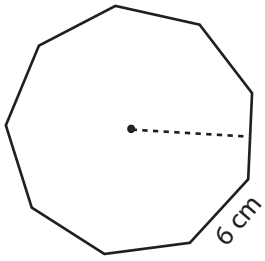


Area = 69.3 m^2

Perimeter = _____

Apothem = _____

7)

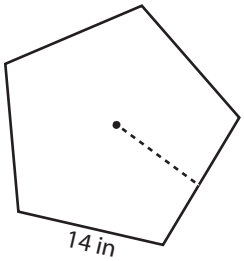


Area = 222.48 cm^2

Perimeter = _____

Apothem = _____

8)

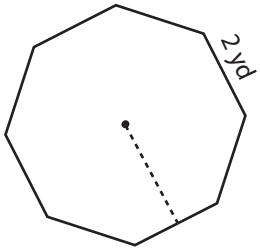


Area = 337.05 in^2

Perimeter = _____

Apothem = _____

9)



Area = 19.28 yd^2

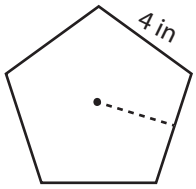
Perimeter = _____

Apothem = _____

Name : _____ Score : _____

Answer Key

Example:



Perimeter = number of sides × side length

$= 5 \times 4 =$ **20 in**

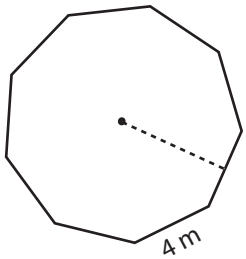
Area = 27.5 in^2

$\text{Apothem} = \frac{2 \times \text{area}}{\text{perimeter}}$

$= \frac{2 \times 27.5}{20} =$ **2.75 in**

Find the perimeter and apothem of each polygon.

1)

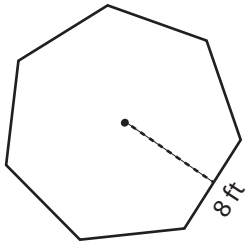


Area = 98.82 m^2

Perimeter = **36 m**

Apothem = **5.49 m**

2)

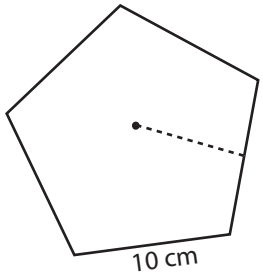


Area = 232.68 ft^2

Perimeter = **56 ft**

Apothem = **8.31 ft**

3)

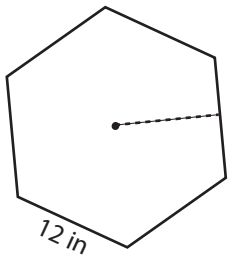


Area = 172 cm^2

Perimeter = **50 cm**

Apothem = **6.88 cm**

4)

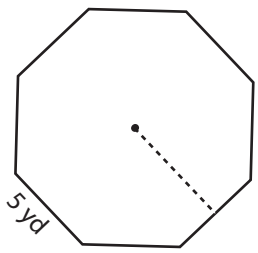


Area = 374.04 in^2

Perimeter = **72 in**

Apothem = **10.39 in**

5)

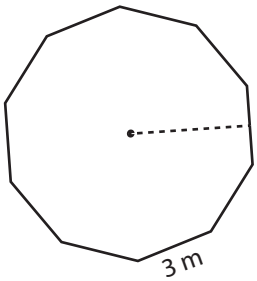


Area = 120.8 yd^2

Perimeter = **40 yd**

Apothem = **6.04 yd**

6)

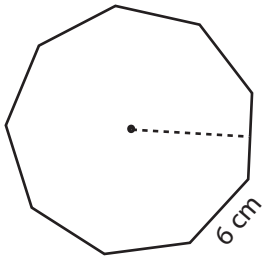


Area = 69.3 m^2

Perimeter = **30 m**

Apothem = **4.62 m**

7)

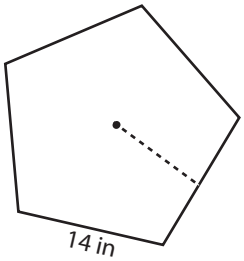


Area = 222.48 cm^2

Perimeter = **54 cm**

Apothem = **8.24 cm**

8)

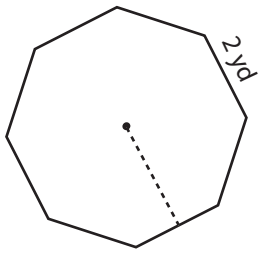


Area = 337.05 in^2

Perimeter = **70 in**

Apothem = **9.63 in**

9)



Area = 19.28 yd^2

Perimeter = **16 yd**

Apothem = **2.41 yd**